

## ABSTRACT

10 The present invention relates to a catalytic composition  
which comprises a beta zeolite, a metal of group VIII, a  
metal of group VI B and optionally one or more oxides as  
carrier. The catalytic system of the present invention  
can be used for the hydrotreating of hydrocarbon mixtures  
15 and more specifically in the upgrading of hydrocarbon mix-  
tures having boiling ranges within the range of 35° to  
250°C, containing sulfur impurities, i.e. in hydrodesulfu-  
ration with contemporaneous skeleton isomerization and a  
reduced hydrogenation degree of olefins contained in said  
20 hydrocarbon mixtures, the whole process being carried out  
in a single step.